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1 Hypertext versioning: Automatic generation of hypertext system repositories: a model driven approach
E. James Whitehead, Guozheng Ge, Kai Pan
August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**
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Full text available: pdf(593.73 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present a model-driven methodology and toolset for automatic generation of hypertext system repositories. Our code generator, called Bamboo, is based on a Containment Modeling Framework (CMF) that uniformly describes data models for hypertext systems. CMF employs a lightweight modeling approach in which entities (system abstractions) and containment relationships are used to model hypertext system repositories. Given a description of a system repository data model using CMF, as ...

Keywords: automatic code generation, containment modeling framework, hypertext data models, model-driven development, open hyperbase

2 Model checking XML manipulating software
Xiang Fu, Tevfik Bultan, Jianwen Su
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The use of XML as the de facto data exchange standard has allowed integration of heterogeneous web based software systems regardless of implementation platforms and programming languages. On the other hand, the rich tree-structured data representation, and the expressive XML query languages (such as XPath) make formal specification and verification of software systems that manipulate XML data a challenge. In this paper, we present our initial efforts in automated verification of XML data manipul ...

Keywords: MSL, SPIN, XML, XML schema, XPath, model checking, promela, web service